

10/811, 317. Cofc

Knobbe Martens Olson & Bear LLP

Intellectual Property Law



2040 Main Street
Fourteenth Floor
Irvine, CA 92614
Tel 949-760-0404
Fax 949-760-9502
www.kmob.com

Bruce S. Itchkawitz, Ph.D.
bsi@kmob.com

June 1, 2006

I hereby certify that this correspondence and all marked attachments are being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on

6/1/06

(Date)

Bruce S. Itchkawitz, Reg. No. 47,677

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Re: Title: **SYSTEM AND METHOD FOR
MEASUREMENTS OF DEPTH AND
VELOCITY OF INSTRUMENTATION
WITHIN A WELLBORE**

Letters Patent No. 6,957,580 B2

Issued: October 25, 2005

Our Reference: GYRO.013A

Certificate
JUN 07 2006
of Correction

Dear Sir:

Enclosed for filing is a Certificate of Correction in connection with the above-identified patent.

As the errors cited in the Certificate of Correction were incurred through the fault of the Patent Office, no fee is believed to be required. However, please charge our Deposit Account No. 11-1410 for any fees that may be incurred with this request.

Respectfully submitted,

Knobbe, Martens, Olson & Bear, LLP

Bruce S. Itchkawitz
Registration No. 47,677
Customer No. 20,995

Enclosures

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San Diego
619-235-8550

San Francisco
415-954-4114

Los Angeles
310-551-3450

Riverside
951-781-9231

San Luis Obispo
805-547-5580

UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO. : 6,957,580 B2
APPLICATION NO. : 10/811,317
ISSUE DATE : October 25, 2005
INVENTORS : Roger Ekseth et al.

Page 1 of 2

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Col. 10, Line 17 (approx.), delete -- σ_0 -- and insert -- Σ_0 --.

In Col. 10, Line 20, delete -- k_{-1} -- and insert -- $k-1$ --.

In Col. 10, Line 55 (approx.), delete -- p_1 -- and insert -- p_1 --.

In Col. 10, Line 59, delete -- $2p_1/B$ -- and insert -- $2p/B$ --.

In Col. 11, Line 21 (approx.), after "and" delete -- $\sigma_{A_L,k}$ -- and insert -- $\sigma_{A_U,k}$ --.

In Col. 11, Line 28, delete -- $\sigma_{v,k}$ -- and insert -- $\sigma_{v,k}$ --.

In Col. 11, Line 31, after $[\sigma_{S,k}^2]$ insert -- , --.

In Eq. 22 at Col. 12, Line 39 (approx.), delete -- $G_k = \tau_{k-} * \alpha_{A,k}^T * (\Psi_{A,k} + \alpha_{A,k} * \Sigma_{k-} * \alpha_{A,k})^{-1}$ -- and insert -- $G_k = \Sigma_{k-} * \alpha_{A,k}^T * (\Psi_{A,k} + \alpha_{A,k} * \Sigma_{k-} * \alpha_{A,k}^T)^{-1}$ --.

In Eq. 33 at Col. 14, Line 43 (approx.), delete -- $\sigma_{v,k} = (p_v * \alpha * (T_U - T_L)/\Delta t)^2 + 2\sigma_{det,k}^2 / (T_U - T_L)^2$ -- and insert -- $\sigma_{v,k}^2 = (p_v * \alpha * (T_U - T_L)/\Delta t)^2 + 2\sigma_{det,k}^2 / (T_U - T_L)^2$ --.

In Eq. 52 at Col. 16, Line 60, delete -- $G_k = \Sigma_{k-} * \alpha_{R,k}^T * (\Psi_{R,k} + \alpha_{R,k} * \Sigma_{k-} * \alpha_{R,k}^T)^{-1}$ -- and insert -- $G_k = \Sigma_{k-} * \alpha_{R,k}^T * (\Psi_{R,k} + \alpha_{R,k} * \Sigma_{k-} * \alpha_{R,k}^T)^{-1}$ --.

In Eq. 54 at Col. 16, Line 63 (approx.), delete -- $\Sigma_k = \Sigma_{k-} * G_k * \alpha_{R,k} * \Sigma_{k-}$ -- and insert -- $\Sigma_k = \Sigma_{k-} - G_k * \alpha_{R,k} * \Sigma_{k-}$ --.

In Col. 18, Line 33, Claim 17, delete -- claim 16 -- and insert -- claim 15 --.

MAILING ADDRESS OF SENDER:

Bruce S. Itchkawitz
KNOBBE, MARTENS, OLSON & BEAR, LLP
2040 Main Street, 14th Floor
Irvine, California 92614

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In Col. 18, Line 36 (approx.), Claim 18, delete -- claim 16 -- and insert -- claim 15 --.

In Col. 18, Line 38 (approx.), Claim 19, delete -- claim 16 -- and insert -- claim 15 --.

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